

150
102
104
106
108
110

a.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$x^2 - 3 \cdot x = 4$

MAIN RAD AUTO FUNC 1/1

b.

SELECT TRANSFORMATION						
$x^2 - 3 \cdot x = 4$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: factor left-hand side						
5: complete the square						
6: enter subexpr selection						
TYPE OR USE \leftrightarrow F1 (ENTER) OR (ESC)						

c.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

add ? to each side

$x^2 - 3 \cdot x = 4$

? = -4

Enter=OK ESC=CANCEL

MAIN RAD AUTO FUNC 1/1

d.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$x^2 - 3 \cdot x = 4$

add -4 to each side

Press <ENTER>

MAIN RAD AUTO FUNC 12/13/34

e.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$x^2 - 3 \cdot x = 4$

add -4 to each side

$x^2 - 3 \cdot x + -4 = 4 + -4$

MAIN RAD AUTO FUNC 1/1

f.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$x^2 - 3 \cdot x = 4$

add -4 to each side

$x^2 - 3 \cdot x + -4 = 4 + -4$

simplify

Press <ENTER>

MAIN RAD AUTO FUNC 12/13/34

g.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$x^2 - 3 \cdot x = 4$

add -4 to each side

$x^2 - 3 \cdot x + -4 = 4 + -4$

simplify

$x^2 - 3 \cdot x - 4 = 0$

MAIN RAD AUTO FUNC 1/1

h.

SELECT TRANSFORMATION						
$x^2 - 3 \cdot x - 4 = 0$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: factor left-hand side						
5: quadratic formula						
6: enter subexpr selection						
MAIN RAD AUTO FUNC 1/1						

i.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$x^2 - 3 \cdot x + -4 = 4 + -4$

simplify

$x^2 - 3 \cdot x - 4 = 0$

factor left-hand side

$(x - 4) \cdot (x + 1) = 0$

MAIN RAD AUTO FUNC 1/1

j.

SELECT TRANSFORMATION						
$(x - 4) \cdot (x + 1) = 0$						
1: add ? to each side						
2: multiply each side by ?						
3: switch sides						
4: A=B → A=B or B=0						
5: distribute multiplication						
6: (A+B) · C → A · C + B · C						
7: A · (B+C) → A · B + A · C						
MAIN RAD AUTO FUNC 1/1						

k.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$x^2 - 3 \cdot x - 4 = 0$

factor left-hand side

$(x - 4) \cdot (x + 1) = 0$

A · B = 0 → A = 0 or B = 0

$x - 4 = 0$ or $x + 1 = 0$

MAIN RAD AUTO FUNC 1/1

l.

SELECT TRANSFORMATION						
$x - 4 = 0$ or $x + 1 = 0$						
1: solve linear equation						
2: enter subexpr selection						
TYPE OR USE \leftrightarrow F1 (ENTER) OR (ESC)						

m.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$(x - 4) \cdot (x + 1) = 0$

A · B = 0 → A = 0 or B = 0

$x - 4 = 0$ or $x + 1 = 0$

solve linear equation

$x = 4$ or $x = -1$

MAIN RAD AUTO FUNC 1/1

n.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

$x^2 - 3 \cdot x - 4 = 0$

quadratic formula

$x = \frac{-3 \pm \sqrt{(-3)^2 - 4 \cdot 1 \cdot -4}}{2 \cdot 1}$

MAIN RAD AUTO FUNC 1/1

o.

F1=	F2=	F3=	F4=	F5=	F6=	F7=
Prob Set	Prob	Q=b	Trans	?	Tools	

P1: Solve for x

quadratic formula

$x = \frac{-3 \pm \sqrt{(-3)^2 - 4 \cdot 1 \cdot -4}}{2 \cdot 1}$

simplify

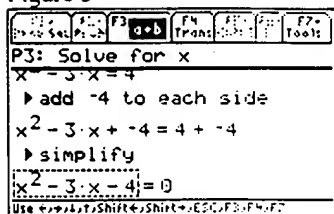
$x = 4$ or $x = -1$

MAIN RAD AUTO FUNC 1/1

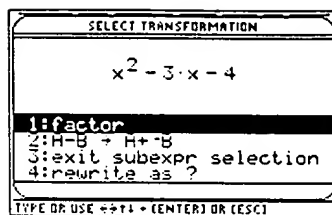
Best Available Copy

Figure 3

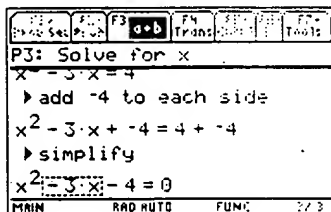
Figure 3



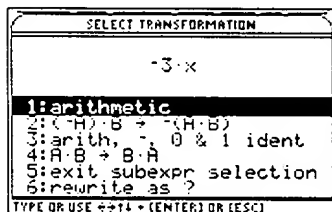
(a)



(b)



(c)



(d)